AMENDMENTS TO THE CLAIMS

Amended claims follow:

1. (Previously Presented) A system for providing passive screening of transient messages in a distributed computing environment, comprising:

a network interface passively monitoring a transient packet stream at a network boundary comprising receiving incoming datagrams structured in compliance with a network protocol layer;

a packet receiver reassembling one or more of the incoming datagrams into a segment structured in compliance with a transport protocol layer;

an antivirus scanner scanning contents of the reassembled segment for a presence of at least one of a computer virus and malware to identify infected message contents; and

a protocol-specific module processing each reassembled datagram based on the transport protocol layer employed by the reassembled datagram.

- 2. (Original) A system according to Claim 1, further comprising: an incoming queue staging each incoming datagram intermediate to reassembly.
- (Original) A system according to Claim 1, further comprising:
 a network protocol-specific decoder decoding the reassembled segment prior to scanning.
- 4. (Original) A system according to Claim 1, wherein the antivirus scanner terminates the transient packet stream if the reassembled segment is not infected with at least one of a computer virus and malware.
- (Original) A system according to Claim 1, wherein the antivirus scanner takes an action if the reassembled segment is infected with at least one of a computer virus and malware.

- 6. (Original) A system according to Claim 5, wherein the action comprises at least one of logging an infection; generating a warning; spoofing a valid datagram in place of the infected datagram; and acquiescing to the infection.
- 7. (Original) A system according to Claim 1, further comprising: a protocol-specific queue staging each reassembled segment with other reassembled segments sharing the same transport protocol layer.
- 8. (Original) A system according to Claim 7, further comprising: an information record storing information dependent on the same transport protocol layer with the staged reassembled segment.
 - 9. (Original) A system according to Claim 8, further comprising: a contents record storing the contents with the staged reassembled segment.
- 10. (Original) A system according to Claim 8, wherein the information comprises at least one of a source address, source port number, destination address, destination port number, URL, file name, user name, sender identification, recipient identification, and subject.
 - 11. (Cancelled)
 - 12. (Cancelled)
- 13. (Original) A system according to Claim 1, further comprising: an event correlator analyzing the transient packet stream for events indicative of a network service attack.
 - 14. (Original) A system according to Claim 13, further comprising: a data repository maintaining each event.

- (Original) A system according to Claim 1, wherein the distributed computing environment is TCP/IP-compliant and each incoming message is SMTPcompliant.
- 16. (Previously Presented) A method for providing passive screening of transient messages in a distributed computing environment, comprising:

passively monitoring a transient packet stream at a network boundary comprising receiving incoming datagrams structured in compliance with a network protocol layer;

reassembling one or more of the incoming datagrams into a segment structured in compliance with a transport protocol layer;

scanning contents of the reassembled segment for a presence of at least one of a computer virus and malware to identify infected message contents; and

processing each reassembled datagram based on the transport protocol layer employed by the reassembled datagram.

- 17. (Original) A method according to Claim 16, further comprising: staging each incoming datagram intermediate to reassembly.
- 18. (Original) A method according to Claim 16, further comprising: decoding the reassembled segment prior to scanning.
- 19. (Original) A method according to Claim 16, further comprising: terminating the transient packet stream if the reassembled segment is not infected with at least one of a computer virus and malware.
- 20. (Original) A method according to Claim 16, further comprising: taking an action if the reassembled segment is infected with at least one of a computer virus and malware.
 - 21. (Original) A method according to Claim 20, further comprising:

executing the action, comprising at least one of:
logging an infection;
generating a warning;
spoofing a valid datagram in place of the infected datagram; and
acquiescing to the infection.

- 22. (Original) A method according to Claim 16, further comprising: staging each reassembled segment with other reassembled segments sharing the same transport protocol layer.
- (Original) A method according to Claim 22, further comprising: storing information dependent on the same transport protocol layer with the staged reassembled segment.
 - 24. (Original) A method according to Claim 23, further comprising: storing the contents with the staged reassembled segment.
- 25. (Original) A method according to Claim 23, wherein the information comprises at least one of a source address, source port number, destination address, destination port number, URL, file name, user name, sender identification, recipient identification, and subject.
 - 26. (Cancelled)
 - 27. (Cancelled)
- 28. (Original) A method according to Claim 16, further comprising: analyzing the transient packet stream for events indicative of a network service attack.
 - 29. (Original) A method according to Claim 28, further comprising:

maintaining each event in a data repository.

- 30. (Original) A method according to Claim 16, wherein the distributed computing environment is TCP/IP-compliant and each incoming message is SMTP-compliant.
- 31. (Previously Presented) A computer-readable storage medium holding code for performing the method according to Claims 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 28, 29, or 30.
- 32. (Currently Amended) A system for passively detecting computer viruses and malware and denial of service-type network attacks in a distributed computing environment, comprising:

a network interface receiving copies of datagrams transiting a boundary of a network domain into an incoming packet queue, each datagram being copied from a packet stream;

a packet receiver reassembling one or more such datagrams from the incoming packet queue into network protocol packets, each staged in a reassembled packet queue;

an antivirus scanner scanning each network protocol packet from the reassembled packet queue to ascertain an infection of at least one of a computer virus and malware; and

an event correlator evaluating events identified from the datagrams in the packet stream to detect a denial of service-type network attack on the network domain;

wherein each of a plurality of a protocol-specific module[[s]] processes each reassembled datagram based on an upper protocol layer employed by the reassembled datagram.

33. (Original) A system according to Claim 32, further comprising: a parser parsing each reassembled datagram into network protocol-specific information and packet content.

- 34. (Original) A system according to Claim 33, wherein the network protocolspecific information comprises a source address, source port number, destination address, destination port number, and URL for HTTP; a file name and user name for FTP; and a sender identification, recipient identification, and subject for SMTP.
- 35. (Original) A system according to Claim 33, further comprising: a decoder decoding the packet content prior to performing the operation of scanning.
 - 36. (Original) A system according to Claim 32, further comprising: a log logging an occurrence of at least one of the infection and the network attack.
- 37. (Original) A system according to Claim 32, further comprising: a warning module generating a warning responsive to an occurrence of at least one of the infection and the network attack.
- 38. (Original) A system according to Claim 32, further comprising: a spoof module sending a spoofed network protocol packet responsive to an occurrence of at least one of the infection and the network attack.
 - 39. (Cancelled)
- 40. (Original) A system according to Claim 32, wherein the distributed computing environment is TCP/IP-compliant, each datagram is IP-compliant, and each network protocol packet is TCP-compliant.
- 41. (Currently Amended) A method for passively detecting computer viruses and malware and denial of service-type network attacks in a distributed computing environment, comprising:

receiving copies of datagrams transiting a boundary of a network domain into an incoming packet queue, each datagram being copied from a packet stream;

reassembling one or more such datagrams from the incoming packet queue into network protocol packets, each staged in a reassembled packet queue;

scanning each network protocol packet from the reassembled packet queue to ascertain an infection of at least one of a computer virus and malware; and

evaluating events identified from the datagrams in the packet stream to detect a denial of service-type network attack on the network domain;

wherein each of a plurality of a protocol-specific module[[s]] processes each reassembled datagram based on an upper protocol layer employed by the reassembled datagram.

- 42. (Original) A method according to Claim 41, further comprising: parsing each reassembled datagram into network protocol-specific information and packet content.
- 43. (Original) A method according to Claim 42, wherein the network protocol-specific information comprises a source address, source port number, destination address, destination port number, and URL for HTTP; a file name and user name for FTP; and a sender identification, recipient identification, and subject for SMTP.
 - 44. (Original) A method according to Claim 42, further comprising: decoding the packet content prior to performing the operation of scanning.
 - 45. (Original) A method according to Claim 41, further comprising: logging an occurrence of at least one of the infection and the network attack.
- 46. (Original) A method according to Claim 41, further comprising: generating a warning responsive to an occurrence of at least one of the infection and the network attack.
 - 47. (Original) A method according to Claim 41, further comprising:

sending a spoofed network protocol packet responsive to an occurrence of at least one of the infection and the network attack.

48. (Cancelled)

- 49. (Original) A method according to Claim 41, wherein the distributed computing environment is TCP/IP-compliant, each datagram is IP-compliant, and each network protocol packet is TCP-compliant.
- 50. (Previously Presented) A computer-readable storage medium holding code for performing the method according to Claims 41, 42, 43, 44, 45, 46, 47, or 49.
- 51. (Previously Presented) A system according to Claim 32, wherein the network protocol packets employ at least one of HTTP, FTP, SMTP, POP3, NNTP, and Gnutella network protocols.
- 52. (Previously Presented) A system according to Claim 32, wherein only datagrams compliant with IP protocol are reassembled.
- 53. (Previously Presented) A system according to Claim 32, wherein the antivirus scanner includes a plurality of protocol-specific scanning submodules, each protocol-specific scanning submodule designated for scanning network protocol packets of a particular protocol.
- 54. (Previously Presented) A system according to Claim 53, wherein the protocol-specific scanning submodules include an HTTP submodule, an FTP submodule, an SMTP submodule, and an NNTP submodule.
- 55. (Previously Presented) A system according to Claim 1, wherein the incoming datagrams include IP datagrams that are reassembled into TCP segments.